

Queen Elizabeth University Hospital, Glasgow & Prince & Princess of Wales Hospice, Glasgow

- November 2024 – February 2025
- Use in 6 patients – difficult to draw firm conclusions
- Ongoing variable prescribing practice
Documentation inconsistent
- Nil observed difference in efficacy between PO or SC
- Preference for PO route - less invasive in chronic use
- Chronic use tolerated



CLONIDINE																																						
Treatment initiation and monitoring protocol for:																																						
Pain unresponsive to standard treatments and refractory agitation in the imminently dying																																						
For other indications, please reference PCF																																						
<table> <tr> <th colspan="2">Agitation-Sedation Scale (RAAS)</th></tr> <tr><td>+4</td><td>Combative</td></tr> <tr><td>+3</td><td>Very agitated</td></tr> <tr><td>+2</td><td>Agitated</td></tr> <tr><td>+1</td><td>Restless</td></tr> <tr><td>0</td><td>Alert and calm</td></tr> <tr><td>-1</td><td>Drowsy</td></tr> <tr><td>-2</td><td>Light sedation</td></tr> <tr><td>-3</td><td>Moderate sedation</td></tr> <tr><td>-4</td><td>Deep sedation</td></tr> <tr><td>-5</td><td>Unroutable</td></tr> </table>	Agitation-Sedation Scale (RAAS)		+4	Combative	+3	Very agitated	+2	Agitated	+1	Restless	0	Alert and calm	-1	Drowsy	-2	Light sedation	-3	Moderate sedation	-4	Deep sedation	-5	Unroutable	<table> <tr> <th colspan="2">Responsiveness to treatment</th></tr> <tr> <td>Fully 1</td><td>No new drugs added No up-titration required</td></tr> <tr> <td>Partially 2</td><td>Additional drugs added Titration of other drugs required Clonidine continued</td></tr> <tr> <td>Ineffective 3</td><td>Discontinued – lack of benefit/ not tolerated</td></tr> <tr> <td>Uncertain 4</td><td>Contemporaneous co-prescription Rapid deterioration</td></tr> </table>	Responsiveness to treatment		Fully 1	No new drugs added No up-titration required	Partially 2	Additional drugs added Titration of other drugs required Clonidine continued	Ineffective 3	Discontinued – lack of benefit/ not tolerated	Uncertain 4	Contemporaneous co-prescription Rapid deterioration	<table> <tr> <th>Pain Assessment Score Key</th></tr> <tr><td>0 – 10</td></tr> <tr><td>0 = no pain</td></tr> <tr><td>10 = pain as bad as you can imagine</td></tr> </table>	Pain Assessment Score Key	0 – 10	0 = no pain	10 = pain as bad as you can imagine
Agitation-Sedation Scale (RAAS)																																						
+4	Combative																																					
+3	Very agitated																																					
+2	Agitated																																					
+1	Restless																																					
0	Alert and calm																																					
-1	Drowsy																																					
-2	Light sedation																																					
-3	Moderate sedation																																					
-4	Deep sedation																																					
-5	Unroutable																																					
Responsiveness to treatment																																						
Fully 1	No new drugs added No up-titration required																																					
Partially 2	Additional drugs added Titration of other drugs required Clonidine continued																																					
Ineffective 3	Discontinued – lack of benefit/ not tolerated																																					
Uncertain 4	Contemporaneous co-prescription Rapid deterioration																																					
Pain Assessment Score Key																																						
0 – 10																																						
0 = no pain																																						
10 = pain as bad as you can imagine																																						
Dosing – as per PCF																																						
If pain does not respond to loading doses, benefit from further doses is unlikely																																						
Pre-initiation Considerations																																						
Is the patient ambulant?																																						
<ul style="list-style-type: none"> Baseline BP and HR required 																																						
Medical History of																																						
<ul style="list-style-type: none"> Ischaemic heart disease, peripheral vascular disease, renal impairment, stroke 																																						
Loading/ test doses	75 microgram SC (or PO*) If no benefit, repeat after 1-2 hours																																					
Bolus dosing	Daily starting dose is twice the required loading dose – 75 – 150 microgram SC (or PO*) BD to TDS If two loading/ test doses were required for benefit, start with 300 microgram/24 hours in divided doses																																					
CSCI	150microgram/24h CSCI If two loading/test doses were required for benefit, start with 300microgram/24h CSCI																																					
PRN	75 – 150microgram SC (or PO*) up to TDS																																					
Titration	If PRN doses are required and beneficial, titrate every 1-2 days																																					
Notes																																						
<ul style="list-style-type: none"> Bioavailability (75 -100%) suggests a PO:SC ratio of approximately 1:1, but oral bioavailability appears to vary with repeated dosing *Consider PO regime if SC route not appropriate/practical Half-life prolonged in renal impairment (CrCl <30ml/minute); consider halving 24 hour dosing Typical effective dose 300 – 600 microgram/24 hours Sublingual and topical routes are also available 																																						

Patient label	Patient label
---------------	---------------

Clonidine Monitoring Sheet

Primary Diagnosis:

☐ _____

Indication:

☐ Pain
☐ Pain and agitation
☐ Agitation
☐ Other (give details) _____

Pain type:

☐ Neuropathic Pain
☐ Inflammatory pain
☐ Bone pain
☐ Mixed pain
☐ Spasticity or rigidity

Put an X on the site of pain

Record BP and HR for ambulant patients at initiation and following dose titration

- Routine monitoring of HR and BP is not necessary in non-ambulatory patients unless symptomatic
- Inform medical staff if -
 - Symptomatic orthostatic hypotension
 - Systolic BP <90mmHg
 - HR <60bpm

Scores	Pre loading/test dose	Post loading/test dose
Pain		
RAAS		
Clinical Response		

Date	Dose	Frequency	Route	BP	HR	Pain score 0 to 10	RAAS +4 to -5	Clinical response 1 to 4

Baseline Observations pre initiation

HR.....

BP.....

- Initiation & dosing regime using PO route
- Monitoring for any perceived variability in oral bioavailability with repeated dosing
- Long term side effects/complications
- Use in subgroups including Parkinson's

- Wilcock A, Howard P, Charlesworth S (2022) Palliative Care Formulary 8th Edition
- Howard P (2024) Isle of Wight Palliative Care Symptom Control Guidelines
- Howard P, Curtin J. Efficacy and safety of subcutaneous clonidine for refractory symptoms in palliative medicine: a retrospective study. *BMJ Supportive & Palliative Care* 2023;**13**:e820-e824.